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March 1995

Upper Blackfoot Mining Complex Site Update and Public Meeting

By the Montana Department of Health and Environmental Sciences

DEC 22 1995

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1993 & 1994
VOLUNTARY REMEDIAL ACTIONS

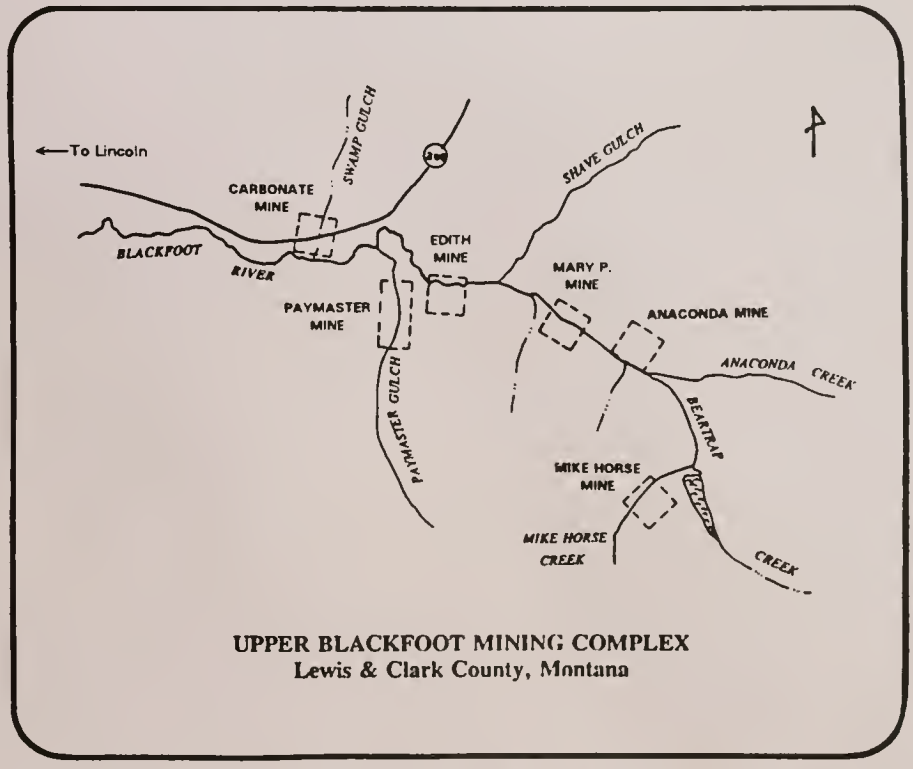
Voluntary interim remedial actions began in September 1993 at the Upper Blackfoot Mining Complex (see map below). Mine wastes and tailings in the Lower Carbonate Mine area were removed, limed and placed in a repository located at the Upper Carbonate Mine area. A stream diversion was built along the upper reach of Mike Horse Creek and construction of the Mike Horse Mine treatability pond began. A reach of Mike Horse Creek adjacent to the treatability pond was reclaimed.

In 1994 the Upper Carbonate repository was completed and reclamation of the Lower Carbonate area was nearly completed. Construction of the treatability pond continued with installation of the pond liner and building of the pond spillway. A 318 foot section of Mike Horse Creek was relocated. Excavation and removal of hydrocarbon contaminated soils at the Mike Horse Mine site was completed. Preparation of Mike Horse Mine repository base was completed. Approximately 7,300 cubic yards of waste material was removed from the Lower Anaconda Mine area and relocated to the Mike Horse Mine repository site. New monitoring wells were installed at the Anaconda, Carbonate, and Mike Horse Mine sites.

PUBLIC MEETING
1995 PROPOSED ACTIONS
MONDAY APRIL 17, 1995
7 p.m.

Please Come!
Please Comment!

See Page 2 For Details



UPPER BLACKFOOT MINING COMPLEX
Lewis & Clark County, Montana

PUBLIC MEETING

ASARCO and ARCO will give a presentation on the Upper Blackfoot Mining Complex voluntary remedial actions completed to date and an overview of the proposed 1995 activities at a public meeting in Lincoln.

WHEN:	Monday April 17, 1995
TIME:	7 P.M.
WHERE:	Lincoln Community Hall

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PUBLIC COMMENT

ASARCO and ARCO are soliciting public comment on the upcoming 1995 proposed voluntary remedial actions. They will take oral public comment during the April 17th meeting. ASARCO and ARCO will respond in writing to oral and written public comments. Please submit written comments between **April 3** and **May 3, 1995** to:

Chris Pfahl
ASARCO
P.O. Box 440
Wallace, Idaho 83873-0440

The following UBMC voluntary interim remedial action documents will be available for review by March 31 at the Lincoln Community Library, Mansfield Library at U of M, State Library (1515 East Sixth) in Helena, and the State Superfund Office (2209 Phoenix) in Helena:

- Voluntary Remedial Action 1994 Activities Report - available now
- 1995 Sampling and Analysis Plan
- 1995 Remedial Design Report
- 1995 Draft Operation and Maintenance Plan - Phase I

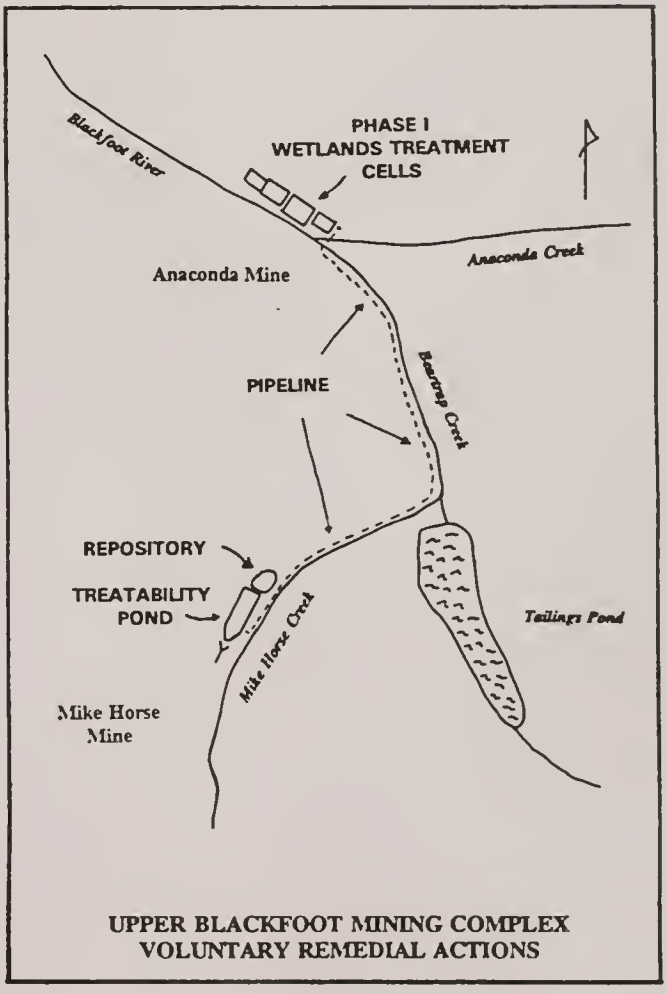
The 1995 Remedial Design Report may not include some design information which ASARCO and ARCO have previously submitted. For example, the design of the water treatment wetlands cells is presented in the 1994 Phase I Wetland Treatment System Final Design Plans and Technical Specifications with Construction Quality Control and Quality Assurance Report. This document and other pertinent UBMC documents are currently available at the above information repositories.

1995 PROPOSED VOLUNTARY INTERIM REMEDIAL ACTIONS

≈ see map below ≈

Proposed 1995 voluntary remedial activities to be conducted by ASARCO and ARCO include the following:

- Removal of the remaining Lower Anaconda Mine waste and tailings.
- Completion of the Mike Horse Mine repository.
- Completion of the Mike Horse Mine treatability pond.
- Installation of a hydraulic seal in the Mike Horse adit.
- Installation of an alkaline drain at the Anaconda Mine adit.
- Construction of the phase I wetlands treatment cells.
- Construction of a pipeline from the treatability pond to the phase I wetlands cells.
- Connection of the pond discharge to the pipeline.
- Reclamation of the Upper Anaconda Mine and Middle Mike Horse Mine waste piles.
- Seeding of the Lower Carbonate wetland area.



UPPER BLACKFOOT MINING COMPLEX
VOLUNTARY REMEDIAL ACTIONS

For more information please contact Judy Reese or Carol Fox at the Montana Department of Health and Environmental Sciences-State Superfund Office in Helena: (800) 246-8198 (in-State use only) or (406) 444-1420.

UKRAINIAN GROUTING PROJECT

The Upper Blackfoot Mining Complex was chosen as a demonstration site to evaluate the feasibility of a clay-based grouting technology which was been used in the Ukraine for decades. This project is funded by EPA and jointly administered by the EPA and the U.S. Department of Energy. EPA contracted with MSE Inc., through the Mine Waste Technology Pilot Program, and Department of Energy to conduct the work.

The purpose of this project is to demonstrate how strategic placement of grout into a fault can control and significantly reduce the inflow of surface water and shallow groundwater into the Mike Horse Mine workings. If successful, the reduction in water in the underground workings will result in less acid mine waters to be treated in the wetlands water treatment system being constructed by ASARCO and ARCO.

In 1993/1994 the Mine Waste Technology Pilot Program conducted a site characterization study of the Mike Horse Mine area. In 1994 they pumped 1,600 cubic yards of grout into the fault. Starting in June 1995 the Mine Waste Technology Pilot Program will finish the grouting and monitor the success or failure of the project.

250 copies of this public document were distributed at an estimated cost of $106.00 which includes $37.50 for printing and $68.50 for postage.

Montana Department of Health
& Environmental Sciences
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P.O. Box 200901
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